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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,308	03/26/2004	Michael John Wray	B-5404 621794-8	7996
7590 12/05/2007 HEWLETT-PACKARD COMPANY			EXAMINER	
Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400			YOUNG, NICOLE M	
			ART UNIT	PAPER NUMBER
			2139	
			MAIL DATE	DELIVERY MODE
			12/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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·	Application No.	Applicant(s)	_		
	10/810,308	WRAY, MICHAEL JOHN			
Office Action Summary	Examiner	Art Unit			
	Nicole M. Young	2139			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions are provided by the content of the provided period for reply will, by state that the provided period for reply will, by state and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION (1.136(a). In no event, however, may a read will apply and will expire SIX (6) MONUTE, cause the application to become AE	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>20</u>	March 2007.				
2a)⊠ This action is FINAL . 2b)☐ Th	This action is FINAL . 2b) ☐ This action is non-final.				
3) Since this application is in condition for allow	vance except for formal matt	ers, prosecution as to the merits is			
closed in accordance with the practice under	r <i>Ex parte Quayl</i> e, 1935 C.D	v. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-13,15 and 16</u> is/are pending in th	e application.				
4a) Of the above claim(s) 14 and 17 is/are w	ithdrawn from consideration				
5) Claim(s) is/are allowed.					
6)					
7) Claim(s) is/are objected to.		•			
8) Claim(s) are subject to restriction and	l/or election requirement.				
Application Papers					
9)⊠ The specification is objected to by the Exami	ner.				
10)⊠ The drawing(s) filed on <u>26 March 2004</u> is/are		jected to by the Examiner.			
Applicant may not request that any objection to the	ne drawing(s) be held in abeyaı	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre	ection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume	nts have been received.				
3. Copies of the certified copies of the pr	-	received in this National Stage			
application from the International Bure					
* See the attached detailed Office action for a li	st of the certified copies not	received.			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) s)/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of I 6) Other:	nformal Patent Application —-			

DETAILED ACTION

This communication is in response to the amendment of application 10/810,308 filed on September 04, 2007. Claims 1-13 and 15-16 are pending. Claims 1, 3, 6, 11, and 15 are amended. Claims 14 and 17 are cancelled.

Specification

The following objections are withdrawn:

Page 1 "The or each compartment"

Page 3 "preferably the or each security"

Page 11 "Monitoring mean s may"

The following objection is maintained:

The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01, for example, page 1 www.trustedpc.org.

MPEP § 608.01 VII states, "Examiners must review patent applications to make certain that hyperlinks and other forms of browser-executable code, especially commercial site URLs, are not included in a patent application. 37 CFR 1.57(d) states that an incorporation by reference by hyperlink or other form of browser executable

code is not permitted." The URL <u>www.trustedpc.org</u> is a form of browser executable code and is a commercial site URL. Please remove the URL's from the Specification.

Claim Objections

The Claim objections are withdrawn.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The Examiner cannot determine the scope of the claim from the current wording.

The Examiner suggests "wherein said security attributes operate to change the root directory of the service or process."

Claims 11-13 have been amended and the rejection is withdrawn.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

As cited in previous Office Action dated June 12, 2007, Claims 1-7, 9-13, and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wiseman et al. (US 7,216,3696) herein referred to as Wiseman.

Claim 1 discloses (original) a system comprising a trusted computing platform and one or more logically protected computing environments, each of which is associated with at least one service or process supported by said system (Fig. 1 and associated text show a system with a TPM and at least one service or process), the system being arranged to load onto said trusted computing platform data defining a predetermined security policy defining security to be applied to one or more of the at least one service or process when said service or process is started (Figs 3A and 3B show the loading of security policies when the OS is started. Particularly, blocks 321 and 323 show loading the policies into the TPM as in column 7 lines 25-38. These policies are then applied and if they are not satisfied an alert is set off as in column 7 lines 39-48).

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Wiseman does not teach the Operating System is loaded before the "data defining a predetermined security policy is loaded".

It would have been obvious to one of ordinary skill in the art at the time the invention was made to rearrange the order of OS and the security (the TPM) when the computer boots. Reversing when the TPM and the OS start does not modify the operation of the device. See MPEP 2144.04, In re Japikse, 181 F.2d 1019, 86 USPQ 70 (CCPA 1950) (Claims to a hydraulic power press which read on the prior art except with regard to the position of the starting switch were held unpatentable because shifting the position of the starting switch would not have modified the operation of the device.)

Claim 2 discloses (original) a system according to claim 1 wherein the policy included one or more security rules for controlling operation of logically protected computing environments (Column 3 lines 52-63 wherein the Examiner interprets "information placed by the platform owner" to be "security rules").

Claim 3 discloses (original) a system according to claim 2 wherein the or each security rule for at least one of the logically protected environments will include an execution control rule which defines the security attributes (Column 3 lines 52-63 especially "The policy table 118 contains policies which the platform 102 must adhere during the initialization/boot process", and the policy table is validated by the DIR 120 which resides in the TPM).

Claim 4 discloses (original) a system according to claim 3, wherein said security attributes include or comprise one or more capabilities to be provided to the respective

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logically protected computing environment when said service or process is started (Column 3 lines 52-63 especially "The policy table 118 contains policies which the platform 102 must adhere during the initialization/boot process", and the policy table is validated by the DIR 120 which resides in the TPM).

Claim 5 discloses (original) a system according to claim 3, wherein said security attributes include or comprise one or more functions which change or modify the capabilities of the respective logically protected computing environment when said service or process is started (Column 3 lines 52-63 especially "The policy table 118 contains policies which the platform 102 must adhere during the initialization/boot process", and the policy table is validated by the DIR 120 which resides in the TPM. The computing environment will be modified by the alerting and stopping of the booting process as in Figs 3A and 3B and also by disabling the TPM as in column 7 lines 25-38).

Claim 6 discloses (original) a system according to claim 3, wherein when a service or process is started said security attribute operate to cause the service or process to be placed and run in a specified logically protected computing environment (Column 3 lines 52-63 especially "The policy table 118 contains policies which the platform 102 must adhere during the initialization/boot process", and the policy table is validated by the DIR 120 which resides in the TPM).

Claim 7 discloses (original) a system according to claim 3, wherein said security attributes operate to modify a user id, a group id or a logically protected computing environment in which a service or process is to be run (Column 3 lines 52-63 especially

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"The policy table 118 contains policies which the platform 102 must adhere during the initialization/boot process", and the policy table is validated by the DIR 120 which resides in the TPM. The computing environment will be modified by the alerting and stopping of the booting process as in Figs 3A and 3B and also by disabling the TPM as in column 7 lines 25-38).

Claim 9 discloses (original) a system according to claim 5, wherein said execution control rule can raise or lower a specified capability (Column 3 lines 52-63 especially "The policy table 118 contains policies which the platform 102 must adhere during the initialization/boot process", and the policy table is validated by the DIR 120 which resides in the TPM. The computing environment will be modified by the alerting and stopping of the booting process as in Figs 3A and 3B and also by disabling the TPM as in column 7 lines 25-38.).

Claim 10 discloses (currently amended) a system according to elaim 5 or claim 9 claim 5, wherein the security attributes operate to filter a set of capabilities of a logically protected computing environment and modifying only one or more of said capabilities as selected by said filtering means (Column 3 lines 52-63 especially "The policy table 118 contains policies which the platform 102 must adhere during the initialization/boot process", and the policy table is validated by the DIR 120 which resides in the TPM. The computing environment will be modified by the alerting and stopping of the booting process as in Figs 3A and 3B. The Examiner determines the process of comparing and alerting the system if a policy is violated to be filtering.).

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Claim 11 discloses (currently amended) a system according to any one of the proceding claims claim 1, wherein said execution control rule specifies the service or process to which it applies by identifying the associated logically protected computing environment, with the effect that said rule applies only to services or processes specifying that logically protected computing environment (Column 3 lines 52.).

Claim 12 discloses (currently amended) a system according to any one of the proceding claims claim 1 the files making up a service or process to which said execution control rule applies are of read only configuration.

Claim 13 discloses (currently amended) a system according to any one of the proceding claims claim 1, including means for monitoring operations performed by the system which modify names of files making up services or programs to which said execution control rule applies (Column 3 lines 20-22).

14. (canceled)

Claim 15 discloses (original) a method of applying a security policy in a system including a trusted computing platform and one or more logically protected computing environments, each of which is associated with at least one service or process supported by said system, the method including the steps of starting a service or process associated with at least one of the logically protected computing environments; and controlling the operation of the at least one logically protected environment by applying, upon starting of the service or process, security attributes to the service or process(Fig. 1 and associated text show a system with a TPM and at least one service or process. Figs 3A and 3B show the loading of security policies when the OS is

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started. Particularly, blocks 321 and 323 show loading the policies into the TPM as in column 7 lines 25-38. These policies are then applied and if they are not satisfied an alert is set off as in column 7 lines 39-48).

Claim 16 (original) discloses a method according to claim 15 wherein the attributes are defined by execution control rules, which are included in security rules implementing at least part of the policy (Column 3 lines 52-63 especially "The policy table 118 contains policies which the platform 102 must adhere during the initialization/boot process", and the policy table is validated by the DIR 120 which resides in the TPM).

17. (canceled)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Wiseman et al. (US 7,216,3696) hereinafter Wiseman as applied to claims 1-7, 9-13,

and 15-16 above, and further in view of Challener et al. (US 2003/0188179) hereinafter

Challener.

Claim 8 (original) discloses a system according to claim 3, wherein said security attributes operate to define a directory to which the service or process is to be chrooted (The Examiner interprets this claim to refer to the Linux command "chroot". Wiseman

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teaches Operating Systems (column 1 lines 36-40) but does not teach Linux specifically. Challener teaches the Linux operating system in paragraph [0006]. The motivation to combine would be Challener paragraph [0006], "the creation of the trusted computer platform, which is typically operated with Linux operating system." The trusted computer platform of Challener is interpreted to be equivalent to the trusted computer platform of Wiseman).

Response to Arguments

Applicant's arguments with respect to claims 1-13 and 15-16 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicole M. Young whose telephone number is 571-270-1382. The examiner can normally be reached on Monday through Friday, alt Fri off, 8:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NMY 11/28/2007

> SYED A. ZIA PRIMARY EXAMINER